

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P964710

Luminaire Tested: **NAV-SB3C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21310.8 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

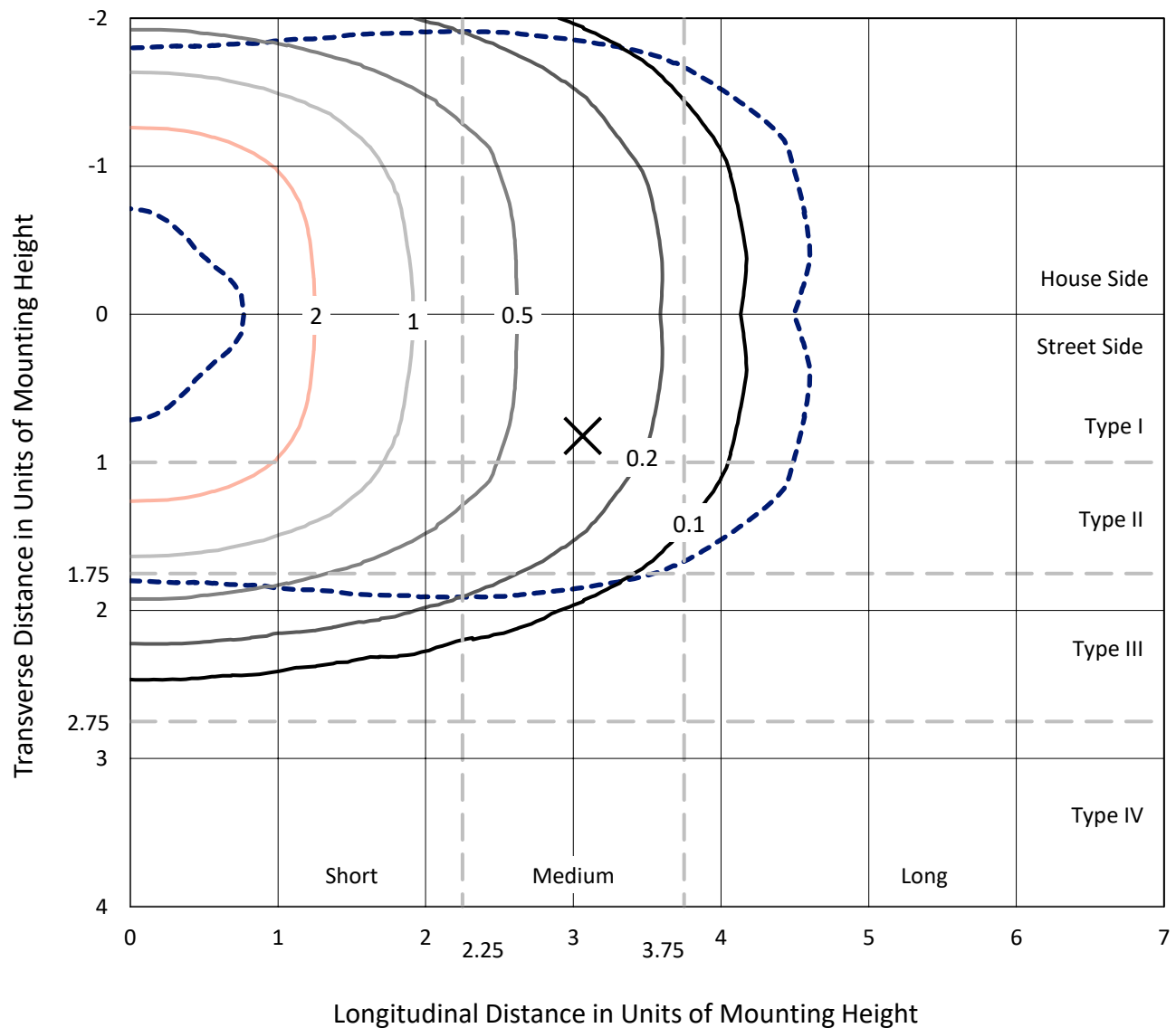


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Iso-Footcandle Lines of Horizontal Illumination

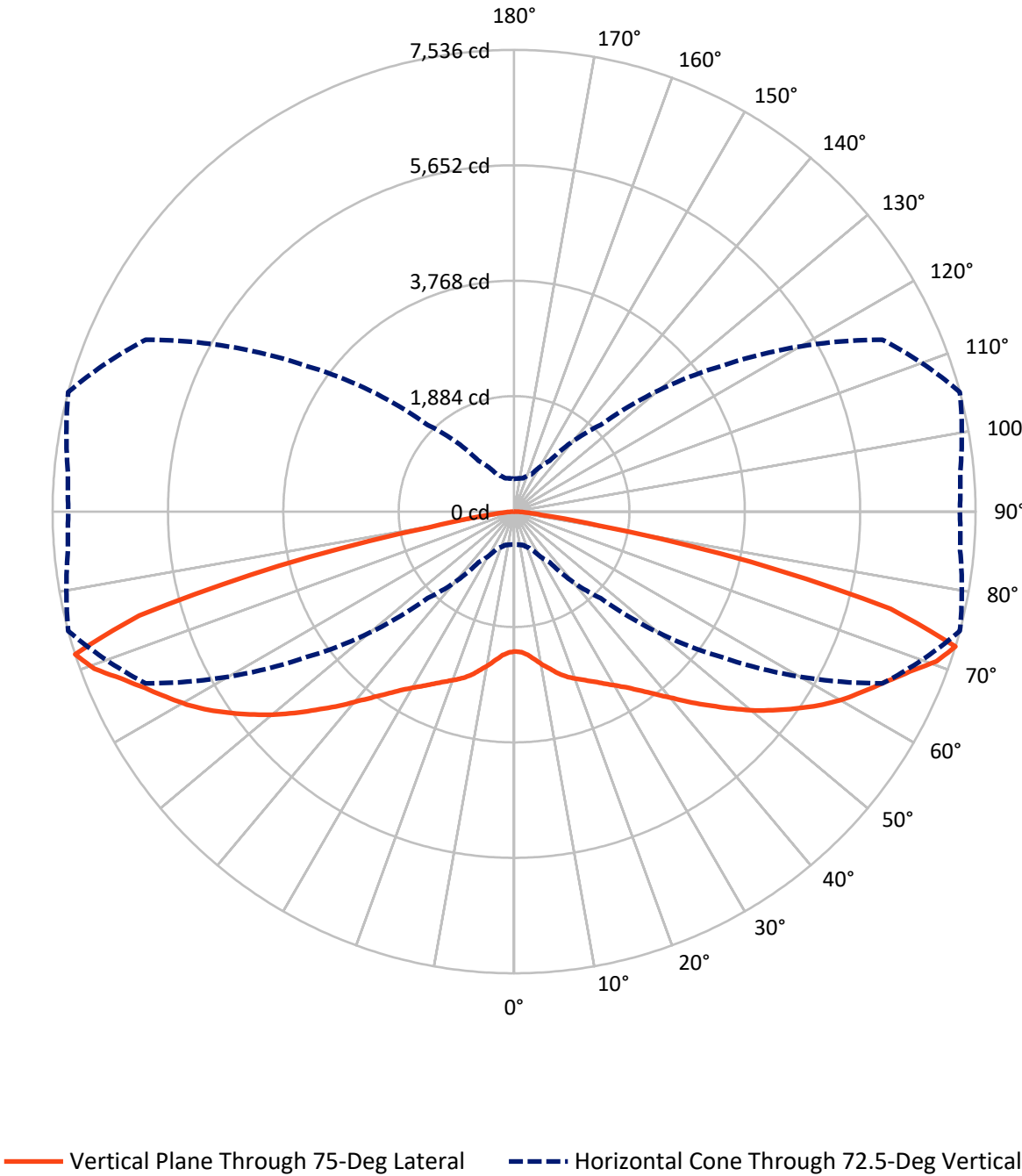
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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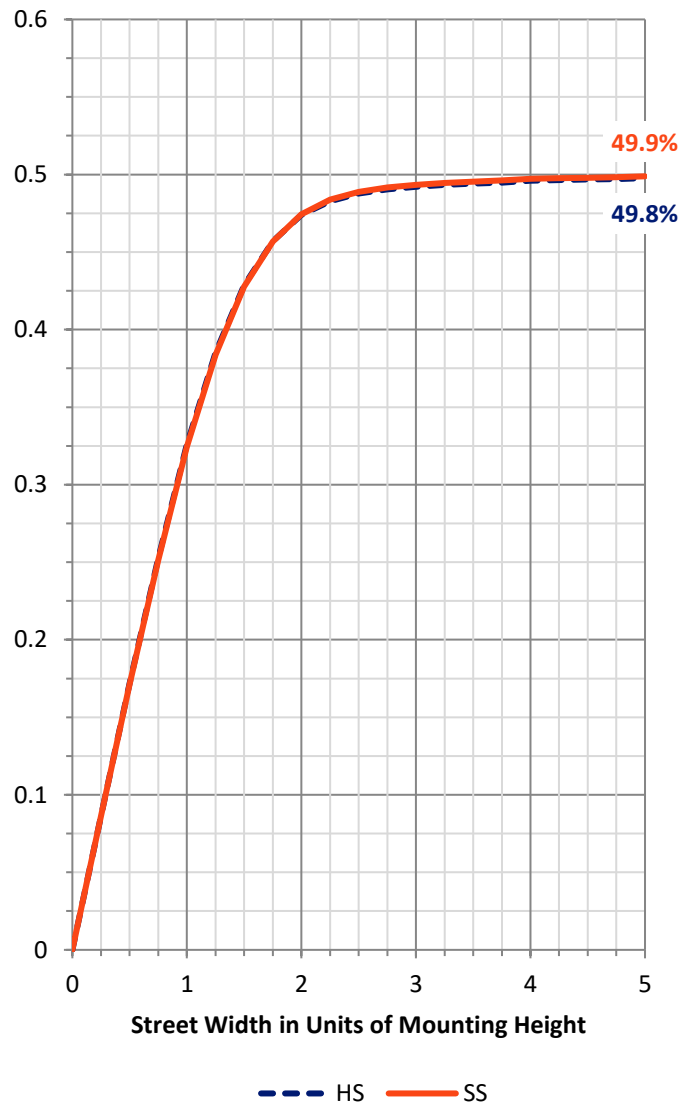
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10655.4	0.0	10655.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10655.4	0.0	10655.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	21310.8	0.0	21310.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	1.0
10°-20°	737.5	3.5
20°-30°	1425.1	6.7
30°-40°	2406.4	11.3
40°-50°	3816.3	17.9
50°-60°	5109.6	24.0
60°-70°	4862.7	22.8
70°-80°	2537.4	11.9
80°-90°	192.1	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21310.8	100.0
0°-180°	21310.8	100.0

Coefficient of Utilization



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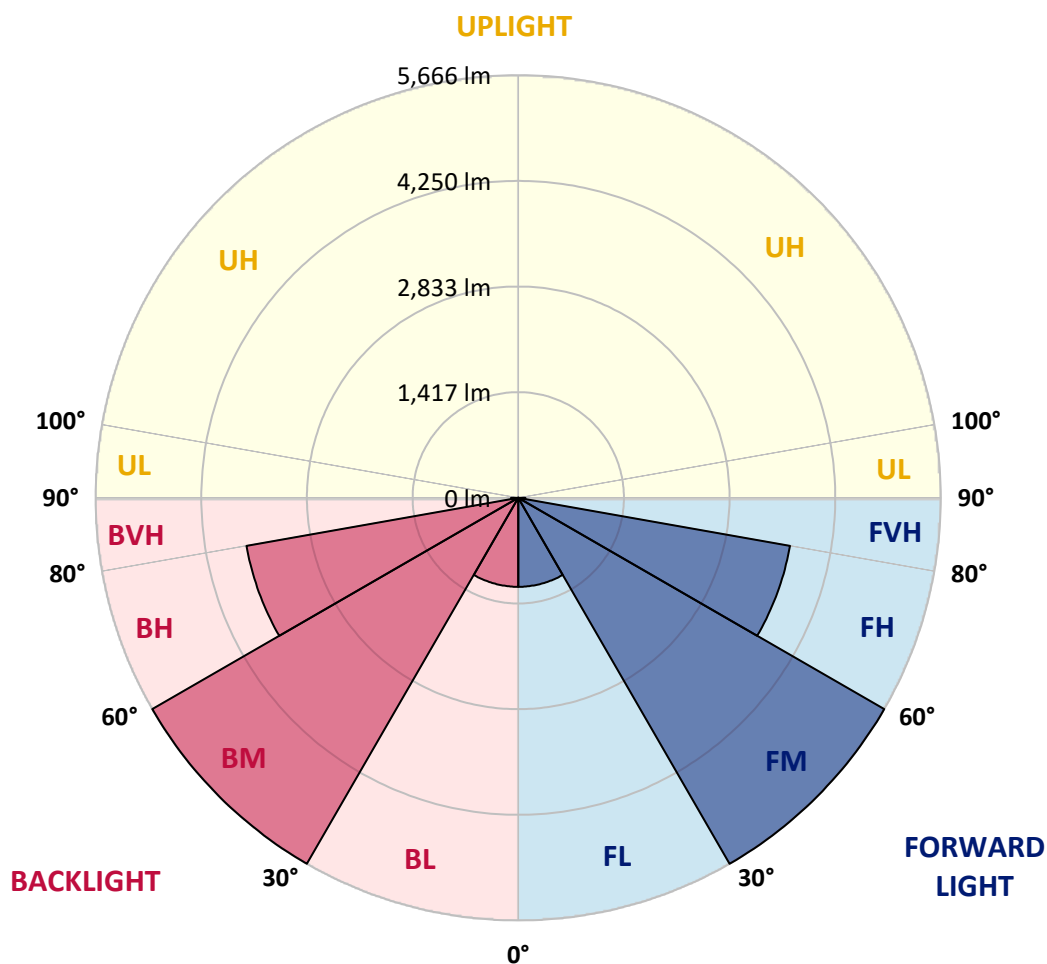
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1193.1	5.6			
FM	(30°-60°)	5666.1	26.6			
FH	(60°-80°)	3700.1	17.4			G2/5000
FVH	(80°-90°)	96.0	0.5			G1/100
BL	(0°-30°)	1193.1	5.6	B3/2500		
BM	(30°-60°)	5666.1	26.6	B4/8500		
BH	(60°-80°)	3700.1	17.4	B4/5000		G4/5000
BVH	(80°-90°)	96.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2282.8	2282.8	2282.8	2282.8	2282.8	2282.8	2282.8	2282.8	2282.8	2282.8	2282.8
2.5°	2282.8	2280.6	2282.8	2284.9	2283.8	2283.8	2289.3	2292.5	2299.1	2297.9	2296.9
5°	2267.5	2266.5	2275.2	2284.9	2292.5	2305.6	2321.9	2333.9	2349.1	2352.4	2352.4
7.5°	2259.9	2256.6	2271.9	2289.3	2313.2	2345.9	2377.4	2410.1	2436.2	2444.9	2447.1
10°	2265.4	2266.5	2287.1	2319.8	2357.8	2403.5	2448.1	2503.7	2540.7	2549.4	2558.1
12.5°	2290.4	2288.2	2323.1	2375.2	2427.5	2485.1	2537.4	2598.3	2638.6	2659.3	2668.0
15°	2336.1	2331.8	2380.7	2458.0	2534.1	2601.6	2644.0	2701.7	2748.4	2774.6	2784.4
17.5°	2390.5	2392.7	2456.8	2557.0	2657.1	2733.3	2773.4	2802.9	2838.7	2861.6	2872.5
20°	2486.2	2490.5	2562.4	2681.0	2795.3	2882.3	2914.9	2904.0	2913.9	2931.3	2944.3
22.5°	2614.7	2616.8	2697.3	2825.7	2945.4	3041.2	3062.9	3018.3	2991.1	3003.0	3011.8
25°	2763.7	2777.9	2858.3	2990.0	3112.9	3204.4	3214.2	3146.6	3079.2	3082.5	3087.9
27.5°	2945.4	2958.5	3040.0	3170.6	3295.8	3375.2	3374.1	3283.8	3184.8	3159.8	3167.4
30°	3142.3	3156.5	3240.2	3375.2	3491.6	3561.3	3546.0	3438.3	3296.8	3250.1	3255.5
32.5°	3376.2	3385.0	3469.8	3604.7	3712.4	3768.0	3736.4	3603.7	3427.4	3374.1	3387.1
35°	3659.1	3672.3	3735.3	3862.6	3957.3	4003.0	3949.7	3793.0	3595.0	3535.1	3543.8
37.5°	3982.3	3973.6	4045.5	4158.6	4236.9	4265.2	4192.4	4006.3	3786.5	3715.7	3728.8
40°	4319.7	4315.2	4393.7	4502.4	4544.8	4562.3	4454.5	4251.1	4007.3	3931.2	3956.2
42.5°	4625.4	4622.1	4727.6	4848.5	4899.6	4880.0	4744.0	4511.1	4263.1	4176.0	4197.8
45°	4870.2	4865.9	4995.3	5165.1	5265.1	5232.5	5049.8	4798.3	4522.0	4431.7	4452.4
47.5°	5058.4	5060.6	5199.8	5409.8	5585.0	5597.0	5362.0	5091.1	4807.0	4704.9	4735.3
50°	5194.4	5201.0	5350.0	5582.9	5822.2	5927.8	5680.8	5391.4	5101.9	4986.6	5021.5
52.5°	5228.1	5240.1	5419.7	5692.7	5974.6	6175.8	6005.1	5679.7	5381.6	5271.7	5300.0
55°	5048.6	5072.5	5300.0	5684.0	6068.1	6339.1	6290.1	5972.4	5663.4	5550.3	5581.7
57.5°	4636.3	4670.0	4935.5	5437.1	6047.5	6451.1	6511.0	6253.1	5945.2	5836.3	5861.5
60°	4058.5	4098.8	4353.4	4900.6	5755.9	6492.5	6666.6	6526.3	6204.1	6098.6	6121.5
62.5°	3186.9	3239.2	3543.8	4185.8	5140.1	6300.0	6799.3	6773.2	6437.0	6305.4	6320.6
65°	2044.5	2100.0	2420.9	3179.3	4318.5	5710.2	6840.6	7013.7	6682.9	6499.0	6521.9
67.5°	1232.8	1257.8	1416.7	1927.0	3156.5	4821.2	6490.3	7280.3	6970.2	6741.6	6759.1
70°	788.8	803.0	897.7	1131.6	1784.4	3517.7	5622.0	7330.3	7318.3	6990.8	6988.7
72.5°	535.4	539.7	564.7	670.2	1009.7	1998.7	4146.6	6636.2	7536.0	7311.8	7277.0
75°	391.8	415.6	455.9	474.4	573.4	998.9	2376.4	4662.4	6351.0	6449.0	6211.8
77.5°	291.6	292.7	348.2	369.9	409.1	532.1	1005.4	2602.7	3943.2	4140.1	3692.9
80°	247.0	233.9	232.9	298.2	307.9	331.9	449.4	898.7	1412.3	856.3	647.4
82.5°	205.6	191.5	173.0	232.9	210.0	203.5	194.7	365.6	449.4	220.9	188.2
85°	143.6	137.1	130.6	152.3	119.7	102.3	93.6	170.9	189.3	93.6	82.7
87.5°	62.0	64.2	65.3	67.4	50.0	35.9	35.9	47.9	47.9	37.0	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)